# TELLETON SEZ

Vernon M. Boltzer, Editor

STATE MISTORICAL

SOCIETY LIBRARY

A PONCOL PAROLE

ALFED C. FIETSCH, MINOT BECKERARY LOUIS GERSHMAN, GRAND FORMS RAYMOND W. HEINEMEY, SIBM

JACK K. DANIELS, WILLISTON VICE CHAIRMAN

STATE OF NORTH DAKOTA

HAROLD G. VAVRA DIRECTOR

のひとしていると知る

BOX 'U' BISMARCK, N. DAK, 98501

TELEPHONE 

701-224

AVIATION USER TAX LEGISLATION NOW PENDING IN CONGRESS

NON. 6961

report out House Bill No. 12780, which would substantially increase user taxes on general aviation aircraft owners and upon airline passengers. The Ways and Means Committee has generally agreed on the following tax package, the proceeds of which would be deposited in a "Aviation Trust Fund" to be used for the cost of the Federal airways system and for airport improvements. The bill includes the following taxes:

- a gallon tax on general aviation gasoline and jet fuel used by business aircraft, with no refunds. Present tax on aviation gasoline is 4¢ per gallon with 2¢ refunded for off-highway use. Present federal tax on jet fuel is none. The bill provides that scheduled airlines will continue to pay no federal tax on jet motor fuel purchased by them. Commuter Airlines would be exempt of the jet fuel tax, since they must charge the 8% passenger ticket tax.
- Federal annual aircraft registration fee, plus 2¢ per pound of certificated gross weight for piston aircraft and 3½¢ per pound added for turbine powered aircraft. (The Federal registration fee would also apply to scheduled airlines with the tax estimated at \$10,000, annually for a aircraft.) 2 Boeing \$25,00
- , on all airline passenger tickets (Present tax on airline tickets of the ticket  $\cos t$ ).
- (Presently no tax on this item.) Tax on air cargo waybills. ۱۷ 96
- Boarding tax for passengers boarding on International flights for which the 8% ticket tax does not apply. 00.00

aviation aircraft powered with general aviat bill passes: The Federal annual registration tax on piston engines would look like this, if the

Aircraft Type & Model	for 1969 Models	8 K@ 1976	Annual Tax
Cessna 150 Beech Bonanza V35A Cessna 172 Cessna 182 Piper Cherokee-300 Piper PA-25-235 (Sprayer) Cessna Ag Wagon -260 Mooney Executive 21 Piper PA-18 Super Cub Cessna 310P (Twin)			23.00 83.00 83.00 79.00 129.00
Lear Jet (Model 248) Beech Model 99 Turbo-Prop	10,400 lbs.		388.00

This bill provides for the use of the revenues, however, the distribution is in a state of flux in the committee. The latest word is that funds allocated for airports may be something like this:

Fiscal Year	1970 1971 1972
	Airports Airports
	Reliever Reliever
Purpose	Air Carrier Airports & Reliever Airports Air Carrier Airports & Reliever Airports Air Carrier Airports & Reliever Airports
	Carrier Carrier
Amount	150 million 180 million 240 million

follows: For the 1970 fiscal year, the above \$150 million dollars would be divided

50 Million -ਰ of States under airport aid. area/population formula for (Same formula as now used.) <u>a</u> clas

50 Million -<del>-</del> ወ --: -ገ carrier airports on basis of passenger enplanements

Milion <del>ار</del> 0 The e Administrator of the FAA for his discretionary fundused on airports of his choice.

50 Million -Total

\* 34-\*\*

AUTHORITIE AERONAUTICS COMMISSION HEAD ANSWERS MOST OFTEN ASKED QUESTIONS ABOUT AIRPORT

In the past  $2\frac{1}{2}$  years, a total of 51 airport authorities have been created by circle in North Dakota in 35 counties. 48 of the total are municipal airport authorities are county wide and one is interstate, including a North Dakota city and a Minnesota city. During 1969, statewide, there are on the average about two permonth, new municipal airport authorities being created by local city commissions Municipal Airport Authorities popular in North Dakota? The answer is yesast  $2\frac{1}{2}$  years, a total of 51 airport authorities have been created by cities Dakota in 35 counties. 48 of the total are municipal airport authorities; county wide and one is interstate, including a North Dakota city and a city. During 1969, statewide, there are on the average about two per

Jamestown, in the west in North similar i Hettinger, Mott, Glen Ullin and Hebron. Bismarck in 1964, created a special airpo authority, wherein the City Commission appointed itself as the authority for the place of financing the new Bismarck terminal building. An authority can arrange suffinancing fast with no problems, while the City of Bismarck could not.

What have municipal airport authorities accomplished besides push for airport improvements? and city councils.
What size of th, new municipal airport authorities are What size of cities have municipal airport authorities are North Dakota, which is Fargo to cities of population as low as not not measure in population to Mandan, which have municipal airport authorities include: Smaller cities town, Dickinson, Valley City and Breckenridge-Wahpeton Interstate. Smaller cities the western part of the state with municipal airport authorities include: Bowman the western part of the state with municipal airport authorities include: Bowman the western part of the state with municipal airport authority for the purt of the city Commission appointed itself as the authority can arrange such the city Commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the authority can arrange such the city commission appointed itself as the city commission appointed itself Smaller cities

over Jamestown Airport, which will employed facturing of certain parts for the in Seattle, Washington. The James 1968. Western Gear Co. has plants Jamestown Municipal Airport Authority acquired a new industry from Los Angeles, California in the month of September, 1969. The Jamestown Airport Authority established an "Industrial Airpark" on the Jamestown Airport and attracted Western Gear Corporation of Los Angeles, Calif. have announced the establishment of a Western Gear Co. plant on the estown Airport, which will employ from 75 to 100 persons in the many section of certain parts for the Boeing 747 aircraft, which is built seattle, Washington. The Jamestown Airport Authority was created in 8. Western Gear Co. has plants in 15 states and has annual sales on the states. \$100,000,000. Western Western Gear Co. plant on the was created in annual sales of the manu-

Breckenridge-Wahpeton interstate Airport Authority was created to enhance its combined position in attracting new industries. These two cities combined have a population of 11,000. These two cities lost two industries that first proposed to locate at Wahpeton, N.D., but were not satisfied with the airport facilities. One would employ 100 persons, but two years later, it has an employment of 150 and located at Watertown, South Dakota. the other also located in Brookings, South Dakota. Breckenridge-Wahpeton interstate Airport Authority in 1969, built a \$225,000.00 improvement at the Wahpeton Airport to meet the requirements of industrial prospects.

financing of 6 wanperon Airport to meet the requirements of industrial profine reason for the airport authority there is to provide ing of the necessary improvement. The Airport Authority has he move fact. move the necessary ime e fast. The city improvement. The Airport Authority has to ty itself does not have laws which permit such

action.

(b)

What manufacturing industry? do local cal industries think of a modern airport and its value to Melroe Manufacturing Co. of Gwinner, N.D. built a world-wideing business through use of theree aircraft in the sales and its products. Melroe Co. is presently the largest manufacturing products. manufacturing

service of its products. Melroe Co. is presently the largest manufacture industry in North Dakota, employing a total of 450 persons at Gwinner, I and 150 at its Cooperstown plant.

The Gwinner Municipal Airport Authority (City population of 500) 1969 completed and dedicated a \$200,000. new airport with paved runways long enough to accommodate pure business jet type of aircraft. The completely paved and lighted airport facilities were built to accommodate the needs of the Melroe Co. The com-

products sold by them made the total dollar value of Melroe Manufacturing had gross sales in 1968 of \$25 ts sold by them made in North Dakota and accounted for the dollar value of manufacturing in North Dakota in 1968 of \$25,000,000. ð 1968 about 20%

Why is a separate municipal airport authority more effective than a City Commission or City Council and governing the airport? A City Commission or City Council deals with hundreds of local matters, with the airport being one of these matters and has very little time or incentive to devote much effort in this direction. In comparison, a five-man municipal airport authority, has one public job only and that is the airport. It is therefore obvious that an airport authority can and will do a superior job in planning for the future. This has been proven throughout

the state.

airport authority

- What powers does an airport authority exercise? A municipal airport authority has complete independence in developing the airport. The legislature provided by law that the authority shall have substantially greater powers than the City that created it. The authority may at its discretion:

  (a) Provide for a development plan.

  (b) Provide for an industrial airpark on the airport.

  (c) Certify up to four mills property taxes on all property with the proceeds for airport development. Any city presently has this power. When a City creates an airport authority, the State law provides that the airport authority shall have this power in place of the City.

  (d) A municipal airport authority may accept both state and federal aid airport funds for improvements.

  (e) A municipal airport authority has the power to authorize and issue on its own motion, airport revenue bonds for payment of capital improvements, without an election. The authority may dedicate property tax revenues and any other revenues at its command to pay off the bonds and revenues.

interest.

City government does not have this flexible financing powers.

A city to accomplish the same job, with respect to an airport, would have to issue general obligation bonds and have a city-wide election.

This financing flexibility is important, when an industrial prospect arrives and wants a decision in one month or less. The Airport Authority can make the decision and match it with necessary financing for improvements. A city cannot move this rapidly.

A City without a municipal airport authority is at a competitive disadvantage if an industrial prospect wants to locate on the airport and needs an answer yes or no, whether the airport will be improved to meet the requirements of such a

In summary, a municipal airport authority has the advantage of having five airport commissioners, who can properly plan for the future of the airport and if and when, the need arises, can provide major capital improvements on a "Grash Basis" quickly, along with arrangements for the necessary financing to underwrite the cost.

#### WINTER PREPARATION

Man although he is a creature of evolution, is not as fortunate as most animals, in that a mysterious clock takes over and they prepare themselves for cold weather. Man must be reminded by looking at the calendar and the weather itself and make plans In the past, we have had serious accidents occur in this state because we neglected to winterize our aircraft accordingly. Winterization kits are available and it is suggested that FAA Certificated Kits be used so as not to possibly invalidate the manufacturer's warranty.

freezing over of crankcase ventilators or breather lines. Both conditions can cause oil starvation and complete engine failure if allowed to happen.

Depending on the type of aircraft, it is sometimes desirable to lag or cover oil lines and tanks to keep oil from congealing.

Of course, selection of proper seasonal lubricants will also minimize this danger. This is dependent on engine type and recommendations of the manufacturer.

Tighter cowled modern engines have to some extent reduced the frequency of freezing over of breather lines, although several years ago, a new Cessna 172 lost all of its oil when the breather line froze over and blew out the crankshaft seal at the front of the engine. When this happens, oil then will be pumped out of the

engine past the seal.

The sequence of events when this happens is that as the crankcase ventilator freezes over, internal pressures build up in the engine, causing the oil pressure gauge to register this pressure and the gauge will move abnormally high and in some instances, move clear off the scale. This pressure will continue until it is relieved either by the dip stick blowing out of sheath or rupturing of the crankshaft seal near the propellor flange. When the seal lets go, pressure on the gauge will drop to normal and flecks and drops of oil will appear on the windshield and it is possible to pump your oil overboard in as little as 20 minutes and then again the aircraft can perhaps be flown several hours losing little.

SNOW REMOVAL REMINDER: Remember that snow removal on secondary airports here in North Dakota is on a sporadic basis and conditions can change daily or hourly for that matter. Secure first hand information on the airport of intended landing by a phone call to someone you know and have him make a personal inspection.

Robert Broadbent (Accident Prevention Specialist) Fargo General Aviation District se says another program, which is a part of the FAA Accident Prevention Program,

Office says another program, which is a part of the FAA Accident Prevention Program, is the Accident Prevention Counselor Program.

Mr. Broadbent says the idea behind the program is to have a responsible person on the spot that could assist or offer help to a local or transient pilot during the time when the help or advice is most needed. Their activity is not limited to the area of residence but can be anywhere during a time that they feel they can help. All pilot counseling activity is closely co-ordinated with the FAA District Office and everyone is encouraged to assist by knowing who and where these people are. The North Dakota Aeronautics Commission is in full support of the Accident Prevention Program and is considering ways and means of recognizing the most active pilot counselor for his efforts in promoting aviation safety.

The following individuals volunteered for and have been designated to represent the Fargo General Aviation District Office as pilot counselors:

240	600000	5 167	100	100	
<del>ح</del>	\$360 M		1000	Harold	
500				100 M	
£63		100		SE .	
Sec.				250 miles	
100	13255	100	100000	1000	
25/8		200	33300	1000	
m		DESCRIPTION OF THE PERSON OF T	10 × 10	100	
147		21333	SECTION S		
Derc A.			100	2002	
as:		059255	2000		
6		15,550			
2y >		900	0.000	12000	
		100	A 250		
			Zeiter(G)		
200			100	1	
200	200		100	35.00	
250		869838B	177 (498)	3000	
78.2)			0.000	200	
		100	1000		
		22.02	63 (3) (6)		
200			845 H SS	300	
375	1000	100	100,711,000		
483					
YOU'S			Alexandria Minn	Chandler	
300				44000	
100		50.00	100	1.4	
200	1886	353	400	200	
20			26 P. S.	200	
63		100	20.00	200	
886		3000	96998	8988	
313			100000	10000	
0750		2560	10.22	assact.	
30				1000	
$^{ m PKS}$		650.63	810	10000	
100		Yours	100	4.0	
683		400	BERRO	3.0	
			200	200	
100		(0.323	83339	\$30.00	
3000				8358	
		200	22 (327)		
		288	4.0		
		30000			
		1053	50,533		
			ALC: Y		
			esota		
c				æ	
٠.			ŗ	- <del>Z</del> c	
co	<u></u>		Ĺa	RO	
CO	ار <u>د ا</u>		Lai	20 20	
0.01	ion		Lan	XOD XOD	
000	ian		Lan	Robi	
Contra	l ame		Lanc	Robe	
Conic	i ama		Lang	Robe	
Come	Dmos		Lange	Rober	
conco	0 8 0 0		Langd	Rober	
Conico	DROS		Langdo	Robert	
Collica	0 8 0 0 0		Langdo	Robert	
College	J. Honon		Langdor		
conce :	- was a way		Langdon		
College 19	i pmos M		Langdon		
College 17	Damos Mo		, nobt		
Callico Lic	i sangar Kanangan		, nobt		
Conico iler	James Mc		, nobt		
Collice lice	lames McD		, nobt		
Collica Tices	- Dames McDo		, nobt		
Contro liced	iames McDo		, nobt		
College Ticker	James Mollo		, nobt		
Calling Tichen	ismes Mclon		, nobt		
College Hepolic	lamas McDon		, nobt	ert Well	
Called LiceCity	lames McDona		, nobt	ert Well	
Callico Ticectio	lames McDoba		, nobt		
	lames Mollona		, nobt	ert Well	
Callico Hopolian	[smas Mc]ona]		Langdon, N.D.	ert Well	
Collica Liceotte	James McDonalo		, nobt	ert Well	
Called TickOlie C	hames McDonald		, nobt	ert Well	
Collics Ticecia.	Jamas McDobald		, nobt	ert Well	
College Tipochera	lames McJonald		, nobt	ert Well	
Called Trepolition	lames McDonald		, nobt	ert Well	
ממווכט ווסטכוונים	ismes Mclonald		, nobt	ert Well	

Baudette, Minn. Minot, N.D.

Jack Luther

Galen A. Filler Bismarck, N.D. Alfred Dahl Willard Riedesel Mohall, N. D.

Robert Jacobson Cogswell, N.D. rosby, N.D Rolla, Leonard G. Rapids, Minn. N.D. Krech

Dr. Glen W. Toomey Devils Lake, N.D. Bill Pointer Roseau, Minn.

Dickinson, N.D. owell G. Ricks lbow Lake, Minn. Valley Phillip Miller Wilbur Finley Rugby, N.D. City, N.D.

Lowell Elbow 1

Ron Ehlers

Allen Saunders

Z.

Mel Wefel Wahpeton, N.D

Darrell Strong Walhalla, N.D.

Jack K. Daniels Williston, N.D.

J. Daniel Vigesaa Fergus Falls, Minn.

Fargo, N.D.

Peterson

Glen Moore Crookston, Minn

Daniel Illies Warren, Minn.

Mrs. Beth Lucy Jamestown, N.D.

Grafton, N.D. Don Schuster Grand Forks, N.D.

Lee Barnum

\* \* \* \* \*

## NEW WAY DISCOVERED TO SMOOTH TURE LANDING STRIPS

Cam Larson of Leeds, N.D. has discovered a simple method to smooth badly bunched grass on turf strips. The method has worked well and has been used the past five years ago, Leeds was in such bad shape because of bunched turf, that they were contemplating going in with cultivators and tearing up the turf and reblading. Instead they waited until the ground was well frozen, they suggest several days of 10 degree below zero weather, and they shaved the entire area with a motor patrol or grader. The process cuts the grass crowns off but does not disturb the root system, there by assuring a good cover of grass the next spring. The windrow of accumulated grass and some debris can either be left at the outer edge of the landing area and burned if dry, or perhaps a better method would be to redistribute or reblade it back over the strip. Mr. Larson states that they do this every fall and have had excellent re-

Other accepted methods are of course, rolling with a heavy roller after the frost left the ground in the spring and while the ground is soft and very pliable.

large diameter tractor earth. also important to use wet Do not u not to rut the soft compactor. XED TO SMOOTH TURF LANDING STRIPS - contint type of roller is very important. type or event the steel type of compactor lt is \* SO OS to float the ground. ∹ slippage to prevent AY DISCOVERED TO Selection of the roller, size, tired compactor ong heavy

#### \$36,561. IN AIRPORT CONSTRUCTION REQUESTS ALLOTS COMMISSION MEETS **AERONAUTICS**

In a meeting held in Bismarck October 27th, the five-man Aeronautics Commission ted requests to 9 airports in the amount of \$36,561, which was the total amount lable from 1969 State Airport fund. Sixteen requests were considered which led over \$133,500. The 9 airports that received funds are as follows:

1. \$4,256 to Westhope Airport Authority for completion of the paving and lighting of a 3,000 ft. runway.

2. \$4,800 to Rolla Airport Authority for administration building and a lighted wind tee.

3. \$3,25 to \$t. Thomas Airport Authority for engineering and construction of a new airport.

4. \$1,270 to the City of Lisbon for new runway lights.

5. \$1,500 to the New Town Airport Authority for installation of runway lights.

6. \$4,000 to LaMoure Airport Authority for runway construction. An additional amount of \$4,000 of 1970 funds was allocated to Mott for runway construction and runway lights, provided that Mott receives a federal airport grant for such work. ommissi available from granted totaled

2

οĘ

\$ 100 N &

taxiway. An additionrunway construcsuch work

of 1970 funds to the Parshall Airport Authority for grading and of runway, taxiway and apron and installing runway lights, provided arshall obtains a federal airport grant for paying part of the cost the project. for such \$10,000 paving that

#### NAPOLEON AND WISHEK, -}< AT CREATED RECENTLY AUTHORITIES AIRPORT

-34

3 years; Karl Wurl named: W.W. Nick The Napoleon and Wishek City Councils made October 6th a red letter day for iation, in that the two most recent formed Airport Authorities were formed simulneously that day. Named to the following terms of office at Napoleon were: C. Parkos - 5 years; Dr. E.H. Goodman - 4 years; Tony Welder - 3 years; Karl Wurl years; Gordon O. Hoberg - 1 year. At Wishek the following were named: W.W. Nick h - 5 yrs; Lorron J. Herr - 4 yrs; Vernon W. Kramer - 3 yrs; Everett Butler - 2 y d Dennis Svedjen - 1 year. yrs; Loric.. nis Svedjen · aviation, in th taneously that

### EXHIBITIONISM RESULTS IN FOUR DEATHS

\*

×

40

ж

z o

& Clark Bridge, Williston, . near Lewis £ 25 a.m. Williston, N 1969, 12:20

attempts 3 passengers fatal as a result of attempt i River approximately of Sept. 25th. The Pilot: David E. Johnson, Williston, N.D. Time & Place: Sept. 25, 1969, 12:20 a.m. Pilot Time: Private, SEL 138:00 TT, Age Aircraft Type: Mooney Super 21 INVESTIGATION REVEALED THAT: The four pe

INVESTIGATION REVEALED THAT: The four persons lost their lives as a result of attempting to fly under the Lewis & Clark birdge that spans the Missouri River approximately 5 miles west of Williston, N.D. at about 12:20 a.m. the evening of Sept. 25th. The following two witness statements tell the story quite well:

Witness No. I was an oilfield roughneck, 18 years of age. Statement follows:

At 11:45 on Sept. 24, 1969, I was in Jamies Cafe in Williston. I heard Dave Johnson talking bout flying under the Lewis and Clark bridge. They were all going at about lacking bout flying under the Lewis and Clark bridge. They were all going at about and group left the cafe at about 12:10.

Witness No. 2 was a young man, 22 years of age plowing on his fathers farm 3 miles SW of the bridge. Witness Statement:

I was traveling east and saw the bridge.

I was traveling east and saw the bright light in the sky coming out of the west and a little north of the bridge. When the aircraft was at the bridge, my memory is a little hazy. The aircraft seemed to leave the area of the bridge and traveled in a southeasterly direction. It traveled southeast for a distance that I can't ascrain, then made a 180° turn and headed back toward the bridge. When I had first seem the bright light, I watched it and then shut off the tractor, lights and radio. I stepped out of the cab to watch and listen because the bright light was a little unusual. After the aircraft had made the 180° turn and headed back to the bridge, I could see a green navigation light and it appeared to be running good. The craft however, looked like it was coming down for a landing. It dropped below the tree line and I could hear the engine clearly. There didn't seem to be anything wrong All you could hear then I heard a boom and everything was

striking the wa about 3/4 mile from the bridge instead the plane never ever reached the bridge, traffic on the highway. rcraft was recovered from the River Aircraft appears

Thom, Contact Harley 7GCAA. .r of skis for Aeronca 223-1884 set of TO BUY: One sik, telephone: Bismarck, WANTED

x 4678, Grand and Forks City, N.D. AFB,

Place:

Aircraft Type: Cessna 120
Pilot Statement: Departed Grand Forks International 12:00 CDT, flew cross country to Valley City. Made a normal pattern and attempted landing on SE runway. Crosswind from the right lifted right wing just at touchdown. Continued in that attitute for approximately 100 ft. without being able to attain level attitude. At that point, the left landing gear tore loose from the fuselage and the aircraft came to rest facing NU rest facing NW. Chris Christensen, Box 4678
Place: Sept. 3, 1969, 1:00
Time: Private, 153 TT, Age 2
ft Type: Cessna 120 Continued in that attitude evel attitude. At that

to Aircraft: Propellor demolished, left landing gear torn from fuselage Minor damage to left wing tip.

Pilot: Dennis D. Doyle, 502 N. Lincoln, Addison, Illinois
Time & Place: August 31, 1969, 2:00 p.m., Dwight Doyle Farm, Bartlett, N.D.
Pilot Time: Private, SEL, 200 TT, Age 25

Aircraft Type: Piper Cherokee Arrow
Aircraft, the day before, I was prepared to take off again to give my Dad and aircraft, the day before, I was prepared to take off again to give my Dad and From the flight service was obtained because the weather was very good for flying from the flight service was obtained because the weather was very good for flying and we were only going to fly around the immediate area. A complete pre-flight was made and a complete run-up was performed. All gauges were checked, flaps set, was made and a complete run-up was performed and we were off. The airspeed indition set, prop set, mixture set, full power and we were off approximately cator climbed to 80 mph, I pulled back on the yoke and we lifted off approximately settled back down, it felt as if we hit a small air pocket, unfortunately we settled down on the small road leading to the farm. I pulled back on the yoke again trying to keep the plane in the air, the mose wheel cleared the road but the main the later.

It felt as if we made a hard landing, there was no jolt on our seat gear did not. It felt as if we made a hard landing, there was no jolt on our seat gear did not. yoke again

Damage to Aircraft: The main gear of the aircraft was knocked off. The rear spars in the wings were pushed up and thru the top of each wing. The damage to the trailing edge and flaps of each wing was evidently the result of the gear ripping off. The right main gear evidently struck the tail (horizontal stabilizer only) because it was bent up quite extensively.

Pilot: R. Douglas Doss, MD., 1600 University Ave., Grand Forks, N.D.

Pilot Time & Place: 8-14-1969, 16.39 Greenwich, Grand Forks International Airport Aircraft Type: Piper Arrow Aircraft Type: Piper Arrow Aircraft Type: Piper Arrow After topping tanks, taxied out, checked mags, run up engine, checked prop, all engine instruments in green. Climbed straight out on heading checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop, all engine instruments in green. Climbed straight out on heading the checked prop and the checked prop an gear did not. It T
belts.
Damage to Aircraft: spars

Time & Place: August 9, 1969, 3:00 p.m., 3 miles north and  $4\frac{1}{2}$  miles east of Ogema, Minnesota Pilot Time: Commercial, SEL Age 22 Aircraft Type: Mooney Mark 21 Investigation Revealed That: Extreme fatigue may have been the cause of the accident. Pilot through various activities had suffered loss of sleep previous active to the crash. Witnesses and people in a farmstead near the scene, reported that an aircraft passed over the farm at extremely low altitude. It is assumed that attitude. While this accident happened in Minnesota, it involved a N.D. man and was included only to show what fatigue can do to a pilot. Damage to Aircraft: Total wreck.

FOR SALE: 1966 150 Trainer, 1670 TT, Mark 3, Primary Panel, rotating beacon, 35 amp generator, 0 SMOH for \$5,700.; 1968 Cardinal, 700 TT, Mark 12 w/VOA 4, ADF 31, Heated Pitot, adjust pilot seat, Alt Static Source, Tinted windows, new annual; 1968 150 Trainer, 530 TT, Mark 12 w/VOA-4, 50 amp Alternator, Primary panel, fresh annual; 1969 Cessna 172 Skyhawk, 300 TT, 2000 hr 150 HP Engine, Mark 12A-360 Ch w/VOA-8, MBT-12, 3 light, heated pitot, ground service plug, 60 AMP Alternator, flashing beacon; Narco Superhomer for Sale, recenlty overhauled. Contact Capital Aviation Corporation, Box 1471, Bismarck, N.D. Tel: 701-223-0260

ATT: WOMEN PILOTS. If you are interested in joining the Ninety-Nines association of women pilots, please contact kay Vogel, 1209 Victory Pl. N. D. or Lou Weber, 812 N. 14th St., Bismarck, N.D. Place, international Bismarck,

Pilot: Roger, Time & Place:

Roger W. Johnson, Mohall, N.D. lace: July 14, 1969, 8:00 p.m., Mohall, N.D me: Commercial, FI, 1100 TT, Age 36

Time:

Injuries: None At the end of ground Statement: Airplane was loaded with water and 2-4D. airplane went out of control to left.

to Aircraft: Left aileron and left wing damaged. Aircraft Type: Pilot Statement: roll, airplane w

Damage to

Pilot:

James O. Haynes, 3210 Whirlaway, Dallas, Texas lace: July 10, 1969, 11:00 a.m., Fryburg, N.D. Logan Airport me: Private, SEL&S, 1128 TT, Age 46 Type: Cessna 150 Time & Place: Pilot Time: F Time:

Aircraft Type: Cessna 150
Pilot Statement: Conventional landing was made. There were two ditches that were not visible until I was too close to stop. The first ditch was small enough and had a rounded bottom so the plane crossed it. The second ditch was too v-bottomed so the nose wheel broke, allowing the propellor and lower cowling to hit the ground. The right wing tip swung around and hit the ground. The path of the plane was 8 yards from the edge of the runway. There were no markings to indicate the limits of the runway. I thought I was on the runway until I was too close to the ditches to miss them. Because of the grass, I didn't realize they were so rough until I hit

Damage to Aircraft: Nose wheel broke, propellor bent, lower cowling bent, leading edge of right wing tip bent.

Recommendations: 1. Not landed at this airport since runway was not marked.

2. Not list airports in AlM or on charts when ditches are in areas that can be mistaken for runways. 3. Require minimum standards for runways before listing them in AlM and showing them on charts.

\* \* \* \* \*

of Devils Lake

Pilot: Edward Herda, Crary, N.D.

Time & Place: July 2, 1969, 7:30 p.m., George Brown farm II miles E. of Devils Lake Pilot Time: Commercial, Instrument, 1499 TT, Age 28

Aircraft Type: Piper PA-18

Aircraft Type: Piper PA-18

Pilot Statement: Took off loaded full from nurse wagon. Made two passes north and south on west side of field. On turn to line up for third pass, aircraft stalled with approximately 30 feet of altitude. It all happened so fast, I never had time to even think of reaching for quick dump. I saw the ground coming up fast and the next thing I was getting out as fast as I could. amage to Aircraft:

Damage to prop, cowling, carburetor, gear, right wing, fuselage and sprayer. and sprayer.

Recommendations: Accident could easily have been prevented by taking more time in the turn or carrying lighter load, to prevent the occurrence of a stall. In my opinion now, nobody has enough time to recover from a stall in a loaded sprayer

turn altitude. at normal

\*\* \*

Pilot: George R. Baker, Berthold, N.D.

Time & Place: June 30, 1969, 11:30 a.m., Blaisdell, N.D.

Pilot Time: Commercial, ASEL, Age 31

Aircraft Type: Piper PA-18

Aircraft Type: Piper PA-18

Aircraft Type: Piper PA-18

Pilot Statement: I had been spraying all morning and had just started a new field. I made one pass to the east, turned around, made a pass to the west. I went under a highline running diagonally across the field and then pulled up for another one by the road. As I pulled up, I heard a sharp crack. Just what it was I will never by the road. As I pulled up, I heard a sharp crack. Just what it was I will never at my ins. Turnents. I didn't make any turn immediately but went out straight trying to find out what made the crack noise. I started a slow left turn, suddenly the plane headed for the ground and couldn't control it. It hit wings back quite hard and then turned around 1800 and stopped. The engine was burning. I climbed out a few minutes later, it burned completely. All Marburger who was spraying in the same area had experienced carburetor icing. My flagman said that as I went over him, my engine sounded like it was wearing a heavy helmet, lined with foam and then ear phones over my ears. With my attention distracted more easily by the crack sound and not looking at my RPM, I could not have detected a gradual loss of power if I had carburetor ice. I think a helmet is fine but it should not cut off engine sound.

, Combo FOR SALE: 1965 PA-30 Twin Comanche 1200 TT; 1964 Cherokee 235 Sharp; 1960 Piper Aztec. Nyack Conversion; 1961 Cessna 310F, 0-SM0H; 1953 Cessna 170B, 400 SM0H, MK-5, F.P.; 1965 Cessna Skylane, 1450 TT, KX150B; 1967 Cherokee 6-300, 900 TT; 1961 Piper Super Cub; 1947 PA-71 C-90, 300 SM0H, Fresh Annual; 1947 NAC Champ 100 hp, 0200 Cont Ceconite Lover Lid Lites, full electrical; 1966 Alon Ercoupe, full panel; 1967 Combo Unite; 1966 Alon Ercoupe, full panel; 1967 Combo Unite; 1947 Stinson Voyager, new interior, 3Y Ceconite Cover; needs engine; 1956 PA-22 Tri Pacer, 0-SM0H engine and airframe; 1946 J-3 C-85; 1967 Cherokee 140, Dual MK-12 VOA-4, full panel; 1959 Cessna 175, 0-SM0H engine, full panel VHT-3, MK-3 R.D.F. Spotless. Contact Monroe Chase, Mid-State Aviation Inc., Box 1014, Bismarck, N.D. Tel: 223-6862 or 255-4907

FOR SALE: 1968 Mooney Statesman, 1500 TT, ASE, MK12-360, ADF, Marker Beacon, rotating beacon, curtains & headrests; 1968 Mooney Statesman, 875 TT, ASE, MK12-360, MK-3, DME, ADF, Marker Beacon, Rotating Beacon; 1969 Mooney Statesman, 575 TT ASE, MK12-90, Rotating beacon; 1966 Cessna 150, 2675 TT, 50 SM0H, NAV-Com 300, full panel; 1968 Mooney Cadet Alon AZA, 1550 TT ASE, MK3, full panel; 1969 Champion Citabria GCBC, 120 TT, MK3. Call or write Agrichemical Aviation Inc., Box 585, Bismarck, N.D. 58501 telephone: 223-2332

FOR SALE: One pair Federal Air Glide Skis C3000, plastic bottoms, Hyd type, Fits 170 or 180 Cessna. Contact Robert E. Nelson, N.D. Game & Fish Department Fleck Building, Bismarck, N.D. Telephone: 224-2180

WANTED: 1941-47 Piper J-3, Piper J-5A Cub Cruiser or 7AC Champ needing recover or major for next annual. Licensed or ferryable. Consider plane less engine & prop. Give details and price in first letter. Contact Curtis Auenson, Ulen, Minn. 56585

FOR SALE: 1967 Musketeer A23-19, MB-278, N6915Q, TT 1900, SE 1700, Gyro horizon & directional gyro w/vacuum system, heated pitot tube, 35 amp battery, heavy duty tir. 17.5 in. Narco MK-12A nav/com 360 w/V0A-8, Narco 31 AM APF marker beacon, exterior white with red trim, Interior nugget gold; 1967 Musketeer Sport N4754J, 150 hp Lyc. TT Airframe 1800 hrs.since factory remanufacture on engine 450 hrs. full electrical

NORTH DAKOTA AERONAUTICS COMMISSION MUNICIPAL AIRPORT
BOX U
BISMARCK, NORTH DAKOTA 58501





FIRST CLASS

Margaret Rose
Historical Society
Liberty Memorial Bidg.
Bismarck, N.D. 58501

system, rotating beacon, landing light, nav lites, vacuum system with gyro horizon, directional gyro, optional pilots door, family seat, Narco MK 3 radio; 1967 Musketeer Sport N4755J 150 hp Lyc. TT Airframe 1600 hrs. total time engine 1600 hrs. twin sister to N4754J; 1969 Beechcraft A23-19 Sport, 101FD, MB417, 390 hrs. TT, Gyro horizon directional gyro, vacuum system, heated pitot tube, tinted glass, rear family seat, theavy duty tires, Narco M12A (90Ch) w/VOA-8, exterior red; 1969 Musketeer B23, N6084N, TT 300, SE300, directional gyro & gyro horizon, dual control, heated pitot tube, heavy duty tires, left side door, tinted glass, Narco Mk 12A nav/com (360) w/VOA-8, white with blue & gold trim; 1968 Beechcraft Model 36 Bonanza, 7707R, E100, 260 TT, super utility package No. 1, 8 day clock, instrument post lights and edge light sub panel grimes dual rotating beacons, heated pitot tube, fifth and sixth seats, front seat center arm rest, alternate static air source, Narco Mk 12A 360 ch, w/VOA-8, Narco Mark 12A, 360 ch, w/VOA-9, Bendix 204A marker beacon receiver, Narco UDI-40ME, blue & white; 1968 Mooney Ranger M20C, 6880086, N6777N, 850 TT, SE 850, Sensitive alt. Shielded ignition system, 35 amp/hr battery, tinted glass, gyro horizon & artificial horizon, rate of climb, clock, OAT, heated pitot tube, Narco MK12-360, w/VOA-8 head. Marigold with cream trim. Write or call Frank at Flight Development, inc., Hector at the company of the content of the content